CLAIMS

15

5

- 1. A torque-to-thrust apparatus including a one-way friction torque-transmitting mechanism comprising:
- a rotary input member operable in a forward and reverse direction;
- 5 a linear output member;

torque-to-thrust means disposed between said rotary input member and said linear output member for transmitting rotary motion of said input member to linear motion of said output member;

- a stationary component;
- a mechanical diode disposed adjacent said stationary component and being responsive to said rotary input member to permit free rotation in a first direction;
 - a friction means disposed between said stationary component and a member of said mechanical diode to hold said mechanical diode member stationary to inhibit the reverse rotation of said rotary input member in a second direction until a predetermined rotary force is present at said rotary input member in said second direction.
 - 2. The torque-to-thrust apparatus including a one-way friction torque-transmitting mechanism defined in Claim 1 further comprising: said mechanical diode having an inner race and an outer race; and said friction means comprising a plate member disposed between said outer race and said stationary component.
 - 3. The torque-to-thrust apparatus including a one-way friction torque-transmitting mechanism defined in Claim 1 further comprising: said mechanical diode having an inner race and an outer race;

said friction means comprising a plate member disposed between said inner race and said stationary component.

- 4. The torque-to-thrust apparatus including a one-way friction torque-transmitting mechanism defined in Claim 1 further comprising: said friction means comprising a plate member secured to said stationary component adjacent said member of said mechanical diode.
- 5. The torque-to-thrust apparatus including a one-way friction torque-transmitting mechanism defined in Claim 1 further comprising: said torque to thrust means comprising a hydraulic force generating means including a master cylinder and a slave cylinder.
- 6. The torque-to-thrust apparatus including a one-way friction torque-transmitting mechanism defined in Claim 1 further comprising said friction means having a holding force proportional to a thrust force in said torque to thrust means.
- 7, The torque-to-thrust apparatus including a one-way friction torque-transmitting mechanism defined in Claim 1 further comprising: said friction means having a substantially constant holding force.